

# The Tech

Vol. 86, No. 45 Cambridge, Mass., Tuesday, Nov. 15, 1966 5c

## Architecture program revamped; 'pre-professional' degree set up

Beginning with this year's freshman and sophomore classes, students working toward a professional degree in architecture will first have to earn a four-year "pre-professional" degree, much the same as has been true in the past of those preparing to become doctors or lawyers. The professional degree of bachelor in architecture (despite its misleading name) is now a graduate degree requiring two years of study beyond the undergraduate level. It was formerly a five-year undergraduate degree.

**Practicality rules**

"It is no longer practicable to contain a professional program within an undergraduate frame," explained Professor Lawrence B. Anderson, Dean of the School of Architecture and Planning.

"As professional subject matter has become more comprehensive, students in architecture have found themselves increasingly crowded out of participation in the broader studies that are so strong a feature of undergraduate intellectual life," he said. "Even lengthening the undergraduate period to five years failed to solve the problem. This is the form of program we now abandon."

**Areas of concentration**

MIT's new four-year program leads to the degree of science in art and design. Architecture actually is only one of four areas in which undergraduates in the program may concentrate. Others are city planning, visual design, and history, theory, and criticism of the visual arts. Just

(Please turn to Page 5)

## Junior Prom draws 1600



Miss Janet P. Tande of the University of Illinois, escorted by Thomas Hood (SPE), was selected JP Queen.

**By Mark Bolotin**

Junior Prom '66, which attracted over 800 couples, provided a variety of entertainment ranging from a formal discotheque to a rock-and-roll blast.

**Tande JP Queen**

The weekend began with the formal dance in the Student Center for approximately 830 couples. Highlighting the evening was the coronation of Miss Janet P. Tande of the University of Illinois, escorted by Thomas Hood '68 of Sigma Phi Epsilon, as Junior Prom Queen.

In addition to the scheduled entertainment by "The Ted Herbert Orchestra," "The Cloud," and

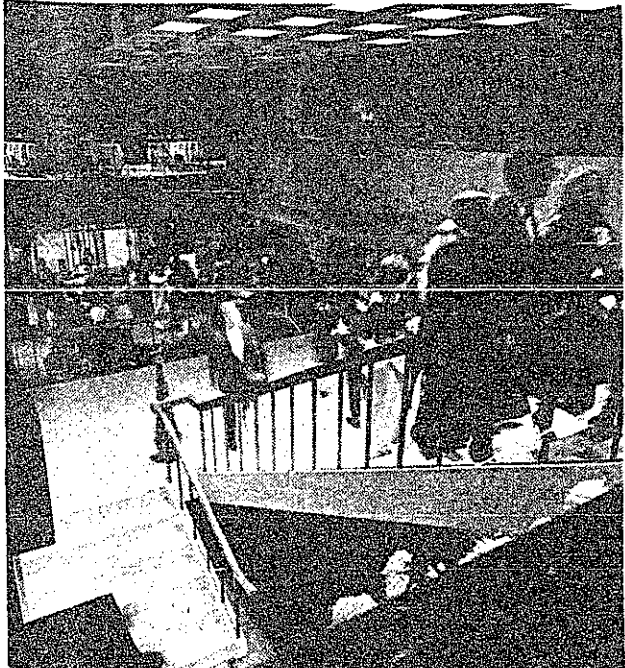
discotheque dancers, Junior Prom Committee presented a mod fashion show and a short songfest by the Logarithms.

**2900 at 'Fantasticks'**

The performance of "The Fantasticks" Saturday afternoon attracted 2900 people, while about 1700 attended the James Brown Show later in the afternoon. "Mr. Dynamite" brought the audience to its feet with uncontrolled presentation of his most famous songs.

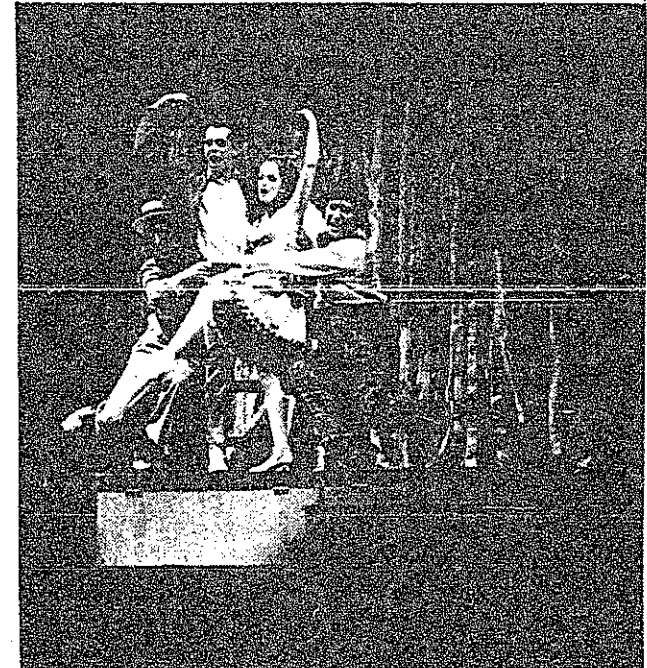
The evening's blast "The Inferno" with music by "The Wild Ones" and "The Next of Kin" concluded the weekend's activities. The success of blast, which

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(Photo by Art Kalotkin)

The Stratton Student Center was the site of Junior Prom Friday night for the first time. Tables lined almost all of the third and fourth floors to accommodate the 800 couples.



(Photo by Art Kalotkin)

Saturday afternoon's presentation of 'The Fantasticks' was held in the Back Bay Theatre, where 2900 people viewed the delightful off-Broadway play.

## '69 prevails again in Field Day

By Karen Wattel

The class of '69 won Field Day Friday, maintaining the third year tradition of odd-numbered classes winning Field Day two years in a row, as predicted by the Tech.

For the first time, the freshman-sophomore competition had a theme, War Games by Galactic Rivals Centered on Venus, to which all preparations were to conform. Such preparations made before Field Day included building a tank with treads and a working turret and water gun, mounting a bed on wheels, preparing a class flag, and sewing nurses' costumes.

Beaver Key was in charge of the competition. This is the second year that the same members of Beaver Key, the junior-senior honorary, has run Field Day, as it was last May that Beaver Key reorganized.

### Bed Marathon

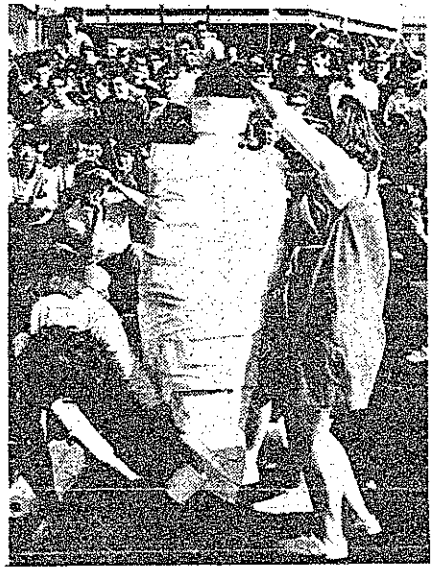
The first event of the morning was the bed marathon, in which a bed with a "nurse" on it was pulled around a track as many times as possible. Mounted on bicycles, the sophomore bed won 15 points for the class. A few feet from the starting line, the freshman bed hit the side of the track, making it harder to move. By the end of the race it was being pulled along on two wheels,

and finally carried. Crews of coeds had to be prepared to remake the beds with clean sheets when Beaver Key requested. The sophomores simply changed mattresses already covered with fresh sheets.

Next, the two tanks (of minimum dimensions five feet by eight feet by twelve feet) were raced. Again the freshman vehicle broke, enabling the sophomores to gain ten points for winning the race. However, five points were awarded to the freshmen for the better tank and five points were subtracted from the sophomores and given to Beaver Key for having broken up the sophomore assault on the freshman tank after the races (as last year, ten points were given to the greased pig for having escaped both the freshmen and the sophomores).

The two mystery events were held next. Two groups of three nurses for each class had to mummify the class presidents (freshman class President John Dollar and Vice President Curt Nehring and Sophomore class President Mark Mathis and Q-Club President Keith Davies) with rolls of toilet paper. If a strip broke dur-

(Please turn to Page 2)



(Photo by Art Kalotkin)

Audrey Solomon and Elaine Leemon wrap up freshman class President John Dollar in mystery event.

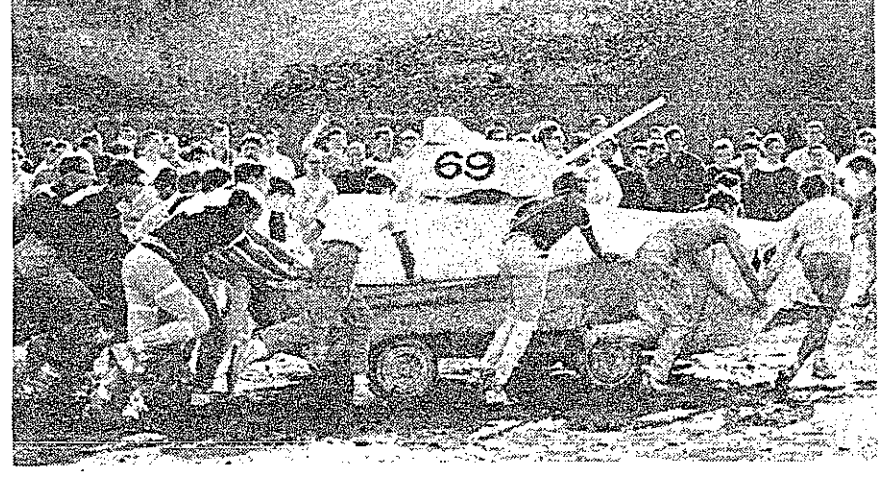


Photo by Lew Golovin

The Class of '70 gets off to a quick start in the Tank Race during Field Day. However, the tank soon broke down, so that the freshmen were forced to carry their tank the rest of the way.

## Faculty Spotlight

### Evans pioneer in science and educational research

By Dave Kaye

Thirty-two years ago Dr. Robley D. Evans established the world's first academic course in nuclear physics. Sixteen years ago he wrote the booklet 'You and Your Students,' which is said to have received a wider circulation than any other Institute publication except the General Catalogue. Five months, ago Dr. Evans became the third American to receive the Silvanus Thompson Medal of the British Institute of Radiology in recognition of his outstanding contributions in the field of radiation protection and safety.

#### Caltech graduate

A graduate of California Institute of Technology and a National Research Fellow at the University of California in Berkeley, Professor Evans first came to MIT in 1934.

Since then he has pioneered in the study of radium's effects on the human body. One of his earliest achievements in this field was the development in 1937 of a method of using gamma rays to measure the amount of radium deposited in the body, a method which is still considered the most reliable available. For this work, the American Association for the Advancement of Science, in 1937, awarded him the Theobald Smith Medal, an award presented for the most important contribution to medicine made by an investigator under thirty-five years of age.

#### Established Cyclotron

In 1938 Dr. Evans established the Markle Cyclotron Laboratory at MIT; it was here, under the joint direction of Dr. Evans and Dr. James Means (then at Massachusetts General Hospital and later on the MIT staff), that radioactive iodine and radiotope therapy were first applied to the diagnosis and treatment of thyroid disease.

A few years later, Dr. Evans'



Professor Robley D. Evans

research established the fundamental Radiation Protection Guide, that is, "the maximum permissible body burden" for radium. This safety standard is now the world-wide protection standard for this element and is the basis used for determining permissible levels for other radioactive substances, such as strontium-90.

During the second World War, Dr. Evans helped develop a radioactive preservative for whole blood, the same preservative which is presently used throughout the United States in Red Cross and hospital blood banks.

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### Kindleberger given honorary doctorate

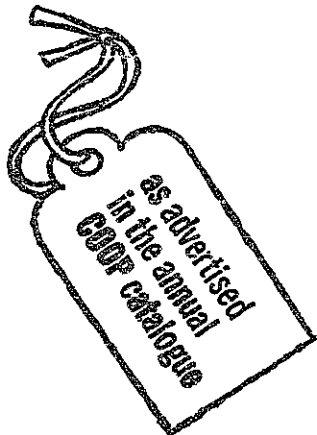
Dr. Charles P. Kindleberger, Professor of Economics and chairman of the faculty at MIT, was awarded an honorary doctorate by the University of Paris for his outstanding contributions in the field of economics.

Prof. Kindleberger, who flew into Paris Sunday, is internationally recognized as an authority on world trade and economics. He has written eight books, including his latest work, 'Europe and the Dollar,' published by the MIT Press.





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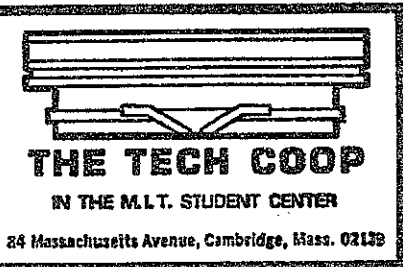
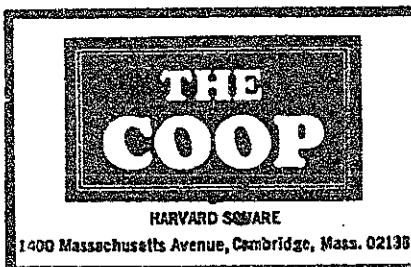
#### SAMSONITE LADIES' JETPACK ..... \$19.95

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## Would you believe-



(Photo by Art Kalotkin)  
The Class of '69 is already on the way to defeat in the tug-of-war. Sophomore Class President Mark Mathis was the first to be dragged into the mud and more of the Class soon followed.

## Glove fight decides result; sophs collect more gloves

(Continued from Page 1)  
ing the process, the group had to recommence. The race was rerun with only two nurses and the class president from each class. Five points were given to the sophomores for winning the race and five points were given to the freshmen for the best looking nurses.

#### Class nurses

Both classes had costumed its nurses in smocks of the class color, blue for the class of '69 and green for the class of '70. Alphabetizing the whole class in

a line was the second mystery event. Only the class president was allowed to speak during it. The sophomores were prepared however, with letter plaques having made a "lucky guess" at the event from the rule that each contestant in Field Day have his name on the back of his shirt. They won this event, too, for ten points.

The class of '70 won both the unlimited tug of war (for ten points) and the co-ed limited of fifteen coeds (for five points). Both tugs of war were held over a pile of mud specially prepared for the event, but were stopped before the losers were dragged in much past their ankles.

#### Glove fight

The glove fight, worth 35 points, ended the morning and decided the winner of the competition. Originally it was thought that the class of '70 had won and the trophy was given to class president John Dollar. At this point a group of sophomores dumped George Jones, Beaver Key President, in the pile of mud prepared for the tugs of war.

The decision was reversed after the mud was separated from the gloves and the gloves were weighed, as it was found that the sophomores had collected about two pounds of gloves more than the freshmen.

Beaver Key Field Day Chairman Dick Coulter stated, "The responsibility of Beaver Key is to officiate fairly Field Day. This means the winning class should be declared the winner, no matter how it looks."

A group of sophomores paraded around campus with the Field Day Trophy to announce the result.



(Photo by Morris Markovitz)  
Undismayed by the loss of the coed tug-of-war to the Class of '70, Shelley Fleet '69 awaits rescue from the mud by some gallant tool.



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## both sides lost



Fifteen sophomore coeds make a valiant, but unsuccessful, effort in the coed tug-of-war. Their strength, however, was not as strong as their determination, as the Class of '70 coeds pulled them across the line and through the mud.

## The Pavement Narrows

## 80 hear discussion

## McCulloch presented by 'Encounter'

Eighty people filled the East Lounge of the Student Center last Thursday to meet Warren S. McCulloch at Encounter. Dr. McCulloch, who is a mathematician, psychiatrist, poet, and experimental epistemologist at MIT's Research Lab of Electronics, discussed a predictably broad variety of subjects.

### Potential of computers

The discussion began with an analysis of the potential of computers. Dr. McCulloch mentioned that computers had already demonstrated supremacy in many of those processes which are essentially human (manipulation of abstractions), but that they were lacking those neural processes which we share with other animals, e.g., perception. Dr. McCulloch related this difficulty in perception by machines to one of his current projects, an automaton able to recognize life on other planets. He emphasized the difficulty of designing a machine which can recognize patterns and movement peculiar to living things, and indicated that future work would be in terms of a binocular scanning system coupled to a computer.

Later the discussion moved to education, and Dr. McCulloch



Photo by Jeff Reynolds

Approximately 80 people attended Thursday's noontime Encounter with Dr. Warren S. McCulloch. The noted psychologist and mathematician answered questions for over two hours during the discussion period sponsored by the Student Center Committee.

held present educational systems to be inadequate and misdirected. He bemoaned the tendency to give students problems for which answers are already known and derided a variety of educational conventions, including physical environment, which constrict and bore the gifted student. Inspired by experiments in which physical mobility was shown to be necessary for learning, Dr. McCulloch helped instigate some classroom

changes in which better lighting and increased freedom of movement increased by 40 per cent the learning rate of grade school arithmetic students.

### Need for mathematics

One of the major topics discussed concerned complexity in biological systems and the need for better mathematics to analyze them. Dr. McCulloch noted evidence of multiplexing of information in single nerve fibers as an example of biological complexity and stressed the intricacy of neural nets. The analysis of such complexities, he said, would require mathematics considerably more powerful than that now available, particularly a logic and calculus of three-pronged relation, which Dr. McCulloch indicated he is working on presently.

Dr. McCulloch emphasized that a mathematical system capable of analyzing large numbers of three-pronged connections could revolutionize biology, much as

(Please turn to Page 7)

## Israel to make study of 3 billion dollar plan for second Suez Canal

Encouraged by the results of research at MIT, the Israeli Government has begun a study to determine the feasibility of a \$3,000,000,000 plan for Israel to outflank the United Arab Republic by building a second Suez Canal.

### Planned by Meir Batz

This plan, the work of Meir Batz, a Russian-born engineer of Beersheba, who migrated to Palestine as a boy, contemplates three years of planning and twelve years of construction.

The canal would be 180 miles long, nearly twice the length of Suez. It would start at Ashdod on the Mediterranean, then pierce the 2000-foot mountains near Sde Boker, and then emerge in the Jordan depression. The proposed canal would then follow the Jordan boundary to the Gulf of Aqaba, emerging at the Israeli seaport Elath.

### Tunnel proposed

The primary concern about the plan's workability is the billion-dollar 25-mile tunnel passage through the mountains. While most of the canal is planned to be 439 feet to allow passage of ships, the tunnel would have to be at least 150 feet across and 100 feet deep to leave room for just one ship. Having never constructed anything of these dimensions underground before, Israeli engineers are doubtful whether the tunnel could carry the strain of the rock above.

### Salt water seepage

Another less serious objection is that salt water seepage from the canal might poison land reclamation projects in the Negev Desert.

The need for a second canal (Please turn to Page 11)

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# MIT with the poor

The elections are over, but the political question closest to the heart of many of the Institute's neighbors still hasn't been resolved. Nobody seems to be sure where or even if the Inner Belt is going to be built.

It's easy to sympathize with the residents of the Brookline-Elm Street region, whose homes seem most likely to stand in the road's way. There is something basically sickening about the sight of citizens being forced out of their homes by road-graders and bulldozers.

Unfortunately, nobody has yet devised a method of building a major highway through a densely populated city without causing this type of disruption. Equally unfortunate is the fact that both Cambridge and the metropolitan area need the Inner Belt. Most traffic experts agree that without it, presently bad traffic conditions will degenerate to the point that Cambridge will choke on the stream of traffic trying to move through it.

Over the past twenty years, engineering study after study has been made, by the Massachusetts Department of Public Works, by interested MIT engineers, and by private firms, all attempting to find some benign solution to the problem. The reluctant consensus of these studies is that a Brookline-Elm Street route would do the least harm to the city.

Three alternate routes have been promoted by residents of the threatened area. The first was a 'railroad' route along the tracks just north of MIT main campus which it seemed the DPW might consider until MIT pointed out the irreparable harm it would do to the Institute, the number of jobs it would destroy, and its projected \$80 million price tag. Since the DPW officially chose the Brookline-Elm Street route last spring, two more routes have been offered as potential highways. These lie along Portland and Albany Streets and along Memorial Drive.

With the proposal of these two alternate routes pressure has been brought to bear on the Institute by Brookline-Elm Street residents hoping that if MIT backs an alternate route their homes will be saved. To pursue this goal, the local residents have accepted the aid of several well-meaning but naive groups of MIT students, notably the MIT chapter of the Students for a Democratic Society and a group of City Planning graduate students.

What these groups don't seem to realize is that by asking MIT to choose and publicly support an Inner Belt route, they are asking MIT to choose which set of its neighbors the Institute wants to see uprooted. They fail to question whether the Institute has the right to decide which area of Cambridge should be destroyed by the highway.

The Institute's officers have decided that they don't have or want such a right. We thoroughly agree with them. In our society such a decision is a governmental one, and can only be made by the duly designated governmental body, in this case the DPW. MIT is only a corporate citizen of Cambridge; in no way is it, or should it be, a pseudo-governmental body.

As engineering study continues, the Portland-Albany Street route recently proposed unhappily becomes almost identical to the Portland-Albany Street route rejected by the DPW last year because it took just as many homes and twice as many jobs as the proposed Brookline-Elm Street route.

At the same time, studies show that merely adding six or eight lanes to Memorial Drive just wouldn't solve the traffic problem. It's sad but true that the further toward the Charles from Central Square, an Inner Belt is built, the less good it will do. It should also be remembered that the further south the Belt is built, the farther Route 2 will have to be extended through heavily populated East Cambridge to hook up with the Belt.

So with the Portland-Albany Street route as the only real alternative, what the Brookline-Elm Street residents and allied groups actually want MIT to do is state that the people who live and work along Portland and Albany Streets should be the ones to go. This is understandable

Street route, but is likely to stir some resentment if you live or work along Portland or Albany Street.

As a corporate citizen, MIT has the right to protest any route which might harm its facilities. This is what the Institute did when a 'railroad route' was proposed. It cannot otherwise participate in choosing the highway's route without abusing the rights of some set of its neighbors. It cannot decree or even try to decree where the Belt should go.

However, the Institute can and should do all it can to ease the burden placed on those who are eventually going to be dislocated. As a citizen of Cambridge it has a moral responsibility to aid those who will be seeking new homes in Cambridge for their families, particularly since the constant pressure of MIT students seeking places of their own to live is going to make that task difficult. To this end, the Institute is joining with Harvard and the city government in a new effort to solve the entire housing problem, as well as those problems caused from Belt relocation.

Hopefully, the combined resources of the city and its two universities will be mustered in time to help retain and house the good citizens the Belt will uproot.

## College World

By Linda Stewart

At Boston College a member of the Heights Editorial Advisory Board is criticizing the architectural style of the college. He feels that the 'modern' buildings on campus are merely caricatures of the past, and that architectural dissolution progresses each time an attempt is made to mimic the old buildings. As outstanding examples of modern campus architecture which accentuate the value of what is old at area colleges, he cites Tufts' new library, which gracefully adapts itself to its hillside terrain; Peabody Terrace at Harvard, which combines both contrast and continuity to the traditional ivy-covered buildings; and of course, the student center at MIT, a contemporary structure complementing MIT's traditional style." However, we'd like to point out that this appraisal was made before the lights were installed.

### The stripper

Gypsy Rose Lee has nothing on a George Washington University instructor who has taken to strip-

ping in his sociology classes. After duly warning his students, the instructor donned a pair of sunglasses and doffed the rest of his clothing — down to his underwear. The lecture he then gave concerned the process of role changing.

The experiment was intended to disrupt normal student expectations. We assume it did.

### For sale

Interested in buying a good used college? There's one for sale in Upland, California, complete with good accreditation, well equipped classrooms, nice gym, and wonderful climate. Upland College (formerly Beulah College) is being sold due to lack of money and lack of students. The administration has been trying for 46 years to make ends meet, but last year, with fewer than 200 students, a budget of \$400,000 and outstanding debts of about \$1 million, the school had to admit defeat.

### Hawaii

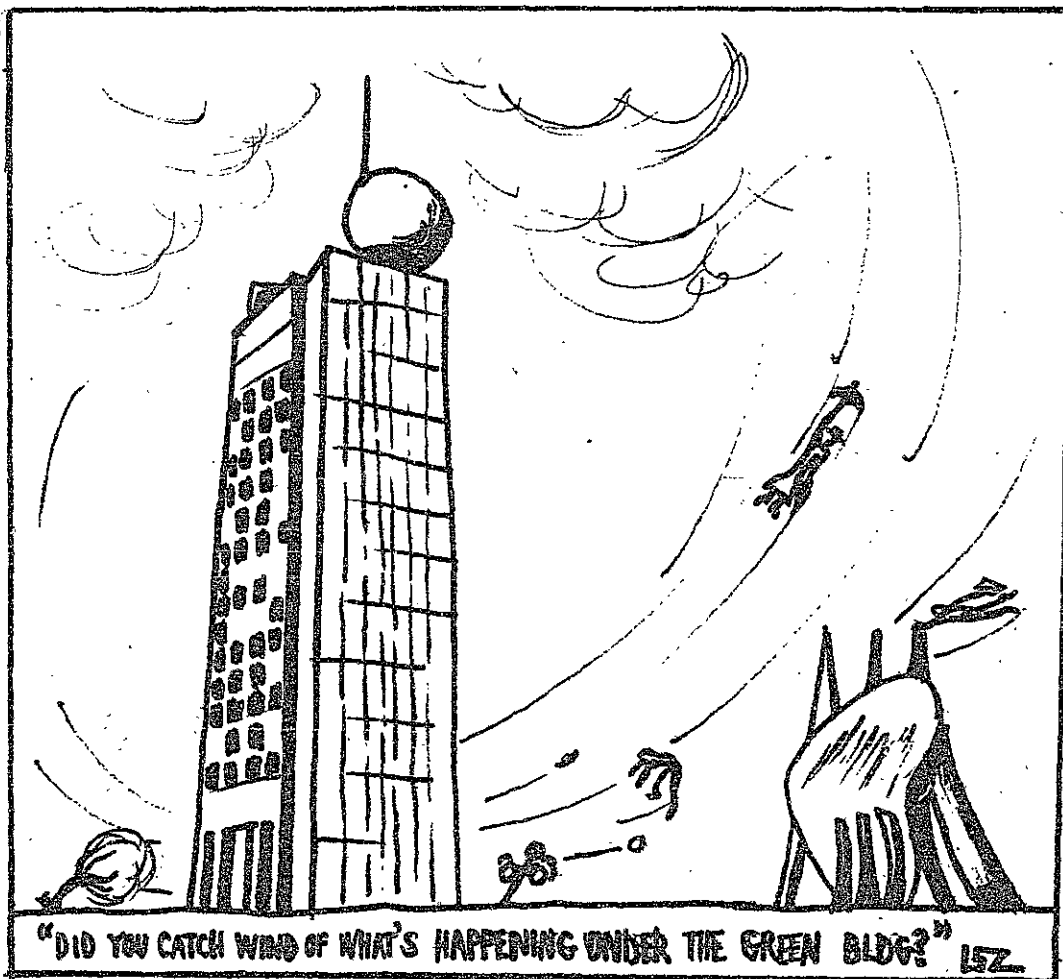
The University of Oregon basketball team is getting an extremely pleasant Christmas present this year. On December 17, the team will depart for the Hawaiian Islands for an eight-day tour, during which it is hoped that they will play two games against the University of Hawaii Rainbows and one game against a selected service team.

Remember, the Tech basketball squad toured Europe this summer.

The College World "Political Awareness on Campus Award" goes this week to the City College of New York. Out of an eligible 12,500 student voters, only 371 voted, and the biggest votegetter happened to be a communist.

### Frisbee

The University of Minnesota, having dropped student-faculty football for a less strenuous game of frisbee, saw the faculty fall to a strong student team. Commenting on the frisbee match, one dean said, "The charge that the faculty team plays dirtier frisbee than any team in the league is completely without foundation. We play hard-nosed, aggressive frisbee; that's all."



## THE TECH



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## Letters to The Tech

### Irresponsibility

To the Editor:

The cartoon and editorial comment on page 4 of your November 8 issue about the new light standards in front of the Student Center is irresponsible. Criticism of a designed object must, to be responsible, include some effort to understand the thing criticised. It must make a definition of the conditions to be met by the designer, and then examine the

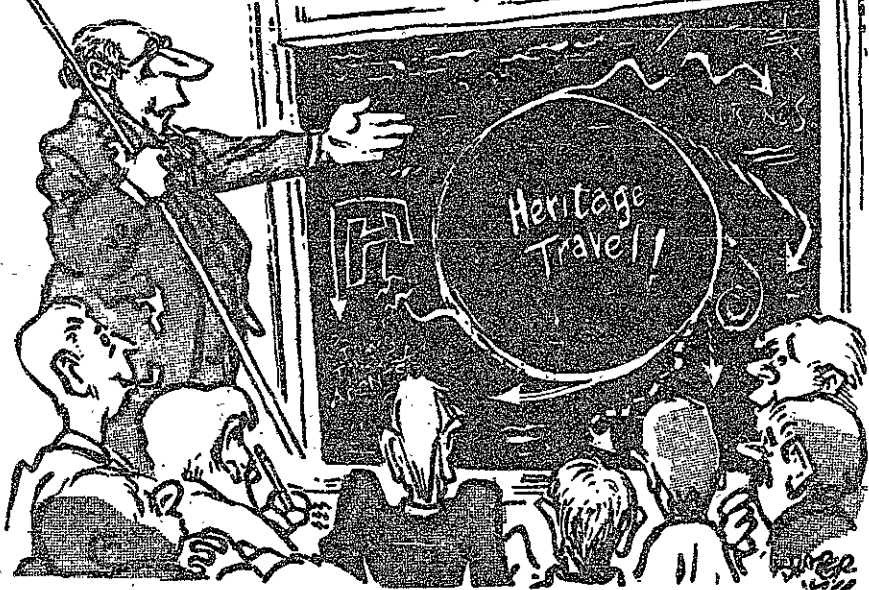
kind and magnitude of his failure to meet these conditions. To merely say that the solution is atrocious conveys no meaning.

Dean Lawrence B. Anderson

(Ed. note: We feel (irresponsibly or otherwise) that the objects under discussion are ugly. We assume that one of the conditions to be met by the designer was an enhancement of the building's appearance.)



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### Prevents past problems

## New Course IV program delays decision of major

(Continued from Page 1)

as in architecture, a concentration in city planning represents "pre-professional" education for the student who plans to continue on for the professional degree of master in city planning.

Because of the demands of the professional curriculum, undergraduates in architecture and planning were previously among the few at MIT who were exempt from having to meet all of the Institute's core requirements in science. Now, in addition to the Institute's generalized sequence in science and the humanities, students in this four-year program will also take a number of interdisciplinary courses bordering on their principal areas of interest. "Sociology of city planning," for example, is now a required "pre-architecture" course.

### Delay declaration of major

Another key feature of the new program is that students now may wait until the beginning of their junior year to declare a major. Formerly, students in architecture who delayed their decision until late in the freshman or sophomore year found they had already lost precious time in the

pursuit of their professional degree.

"The fixed curriculum presupposes that before entering college the student has selected a track leading directly to a specific career," Dean Anderson said. "Young people today are not that docile."

"While it is true that gifted designers often declare themselves early, a large share of the most talented undergraduates are either not immediately vocation-motivated or are searching for some new combination of disciplines that will furnish greater scope."

### City planning

The problems for city planning students have been a little different from those in architecture. City planning at MIT has been a graduate-level program since it was established in 1936. It has become increasingly apparent, however, that two years of graduate study was not enough for professional competence. With the new program, city planning courses are now taught at the undergraduate level and students no longer need to plunge into graduate work without prior training in the field.

Those who choose the area of visual design will develop competence in the use of color, textures, patterns and the visual quality of materials. Some will pursue the arts of sculpture, painting and photography. Others will concern themselves with graphic composition and the achievement of creative solutions to problems in visual communication.

Students concentrating in history, theory, and criticism of the visual arts will be concerned with the interaction of history, criticism, and practice in either architecture or painting and sculpture. They will share many courses with students in the allied areas of architecture and visual design. Many will continue on for advanced degrees in the history of art or professional work as historians, critics, museum directors, or curators.

### Unity and organization

"Scientists and artists seek the same principles of unity and organization, though in different ways and for different purposes," said Dean Anderson. "The functions that both perform in perceiving rhythm, pattern, proportion and form are often parallel."

"As an integral part of a scientifically oriented university, we are able to nurture interactions between visual thinking, mathematics and logic, the physical and social sciences and the humanistic arts."

### JP blast 'successful'; similar events likely

(Continued from Page 1)

"went over quite well," should pave the way for similar dances in the future, according to Jay Hammerness, Assistant Dean of Student Affairs.

### Credit given committee

Scott Davis, Junior Class President, commended the members of the committee for the weekend, explaining that they "get credit for making the weekend what it was." Although not all figures have been received by the Junior Prom Committee, the weekend was conducted at near break-even financing.

Mom, what's  
a UniRoyal?

Ask your  
father.



Son, your father might think that you're not old enough to understand. But we're going to try to explain it to you so you will understand.

Uniroyal is the new international trademark for the U.S. Rubber Company.

(That only sounds complicated. A trademark is kind of like a nickname for companies. And an international trademark simply means that no matter where that company goes in the world, everybody knows its nickname right away

without asking.)

Why did we need a new trademark?

Because we've outgrown our old one, "U.S. Rubber," the way some kids outgrow their nicknames.

You see, about half the things we make—such as Royalex® (a modern plastic that's tougher than steel) or Keds® (the canvas sneakers that you wear to play baseball) or even your father's new Royal® golf clubs—have very little to do with rubber. So you can see that the "Rubber" part of

our nickname doesn't fit anymore.

As for the "U.S." part, we make a lot of our things in 23 different countries all over the world. So that doesn't fit either, does it?

But our new nickname, Uniroyal, fits everything we make. No matter where we make it.

Isn't it all clear now? Could you explain it to your dad tonight?

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## THE ISSUE:

**"BUSINESS DOES NOT RECOGNIZE THE ABILITY OF YOUNG MEN"**

●●● The young man looks upon the corporation as a device which strangles his talent with organizational inertia and also hobbles his ambitions with bureaucratic lethargy. ●●●

—James Hill, Harvard University

## WHAT'S GOING ON?

Last week, James Hill, Harvard student, answered a letter from Robert W. Galvin, Motorola Chairman, which asked: "What's wrong with business?" Mr. Hill raised a number of trenchant issues and this is Mr. Galvin's first reply. Other points will be tackled in subsequent issues of this paper.

The exchange is part of a unique dialogue between campus and corporation—a dialogue that will continue as long as there are points to be made. This and similar discussions will be published in newspapers on over 20 campuses.

Hopefully, this exchange of ideas will help resolve existing differences and serve as a vehicle for mutual respect and understanding.

Dear Mr. Hill:

You have made quite an indictment. Unfortunately, I believe that many young men share your view about business. This bothers me.

You say business does not recognize young ability. If you mean "some businesses don't use the talents of all young men," I'll agree. My advice for the individual lost in the shuffle would be to confront his boss and ask for a straightforward appraisal. Ask for his reasons. They may be very valid ones. If they are not valid . . . and the boss seems unwilling to change the situation . . . then I say the young man should take his talents to one of the many forward looking companies who are eager to give him opportunity commensurate with his potential.

I say the same to you. Dig a little before you take a job in any organization. Ask how many men between 25 and 35 have responsible positions. Evaluate the company while they evaluate you.

Business—modern business—must have an input of young men of ability to survive and grow. Keep in mind that there are desirable and undesirable corporations. Growing and static corporations—just as there are university departments and government agencies that have vitality—and some that don't. Show me the company (or law firm or

university) with, what you call, "organizational inertia and bureaucratic lethargy." I'll show you one that is dying on its feet.

With the tremendous demands from all segments of our society, no company can afford to ignore talent—young or old. In one division of Motorola, for example, we have young men in their 20's working side by side with more experienced employees in developing and marketing products for hospitals, sophisticated police communications systems, traffic control, commercial and closed circuit television. These men have both responsibility and authority. Some are engineers, others are in sales, planning and marketing. I can assure you, progressive businesses need every ounce of excellence they can find.

Let's look at what takes place when a young man begins a career—almost any career.

The "recently graduated" lawyer or doctor begins, not by immediately taking a command position, but by involving himself in a period of learning, exposure, training—call it what you will. He's learning the ropes. Why should such a "learning" process be frowned on in business? The young lawyer may spend most of his first two or three years of practice in the law firm's library.

The young doctor becomes an intern and then resident—spending years as a "junior doctor." Even the specialist is still "junior" on his first staff appointment.

During this period, whatever the career, it is the individual who determines the rate at which he sees action. The rate at which he is ready to handle responsibility. The rate at which he gains authority.

This early stage is obviously a most important time. In business, it provides

the opportunity for the man and the company to objectively view each other. To evaluate. It permits the individual to realistically judge his own abilities—under working conditions. He can appraise just how smart he is—not only how smart he thinks he is. It tells him what he can really do.

What happens during this period and thereafter, in business or in any profession, is up to the man. He must make the waves. He should be encouraged to make waves. His college degree is no more a guarantee that he will be a good businessman than an M.D. or LL.B. guarantee a good physician or lawyer. Recognition? His own motions and judgments will establish his personal identity in the corporate crowd. Men in motion, with sound ideas, imagination, and enthusiasm—are not gray or faceless, nor can they be made so. It would be a shortsighted corporation that would try.

In many areas, today's business needs today's young men—25 and 30 year old decision makers. Let's discuss this further.

Robert W. Galvin,  
Chairman, Motorola, Inc.



# Actions of Hitler, Mussolini analyzed by McCulloch

(Continued from Page 3) solved problems is the removal of calculus revolutionized physics. from power of those who are insane. The discussion then turned to the influence of psychoses on historical events. Attributing the actions of Hitler and Mussolini to psychotic conditions (traced to syphilis in the case of Mussolini), McCulloch asserted that insanity and senility have accounted for a large number of major policy decisions, and he contended that one of the world's major unsolved problems is the removal from power of those who are insane. Dr. McCulloch proved able to turn any question into a fascinating answer, and the session went over two hours without strain. Dave Peterson, director of Encounter, termed the session "the most successful to date." This Thursday's Encounter at noon in the Student Center, features Dr. John Wulff, Prof of Metallurgy.

**EVANGELICAL CHAPEL SERIES**  
**M.I.T. CHAPEL**  
**WEDNESDAY, NOVEMBER 16, 7:00 P.M.**  
 The last service in a series arranged to present basic aspects of the Christian faith.

**SPEAKER: DR. GWYN WALTERS**  
 Gordon College

**TOPIC: "The Humanity of Christ"**  
 "The one who makes men holy and the men who are made holy share a common humanity—he (also) became a human being so that by going through death as a man he might destroy him who had the power of death."  
 —Hebrews 2 (Phillips).

Evangelical Chapel Series Committee  
 For further information Call Ext. 2327

## movies . . .

# 'Georgy Girl'--old theme with new twist

By David Koffman

'Georgy Girl' is the latest of the stream of offbeat, moralistic comedies that has been coming out of Great Britain recently.

The title character, played by Lynn Redgrave, is the antithesis of the usual fun-loving, slightly promiscuous heroine. She appears to have a congenital inability to have fun. As the theme song has told us all before seeing the movie, Georgy seems unwilling to do anything, to start anything new, to take any chances. In reality, she is a rather curious misfit, who takes the course of the movie to find out that her conception of fun is not that of her playful friends (and of the audience).

### Runs a nursery

Basically, Georgy's problem is that she only sees in men the opportunity to have children, instead of sex. She runs a sort of nursery for a horde of little kids, who are obviously her real friends. Her roommate, Meredith, played by Charlotte Rampling, has a set of obvious assets and care-free social life which provide a sharp contrast to Georgy's chubby figure, bull-dog face, and stay-at-home existence.

**'GEORGY GIRL,'** starring James Mason as Mr. James, Alan Bates as Jos, Lynn Redgrave as Georgy, and Charlotte Rampling as Meredith; directed by Silvio Narizzano; playing at the Cheri I.

The real catalyst, however, played by Alan Bates, is Meredith's boyfriend and, later, husband Jos. When Meredith turns out to want to put their baby up for adoption, Georgy and Jos shack up and take care of it. But as Schopenhauer pointed out, the will of the world for men to reproduce is stronger than the will of any one man; he has tied himself to a baby caring machine, and when it comes time for bed, her first thought is to be rested to feed the baby at 3 am.

### Strips in street

Bates and Rampling provide most of the life of the movie. Bates in particular is to be congratulated for managing to look natural, stripping off his clothes as he runs through the streets of London declaring his love for Georgy.

The man who turns out to be our anti-heroine's saviour is her father's employer, James Mason.

In the end it is he and his money who are sacrificed to the will of the world. Georgy and the baby will be happy together, and everybody else will go on with the useless battle.

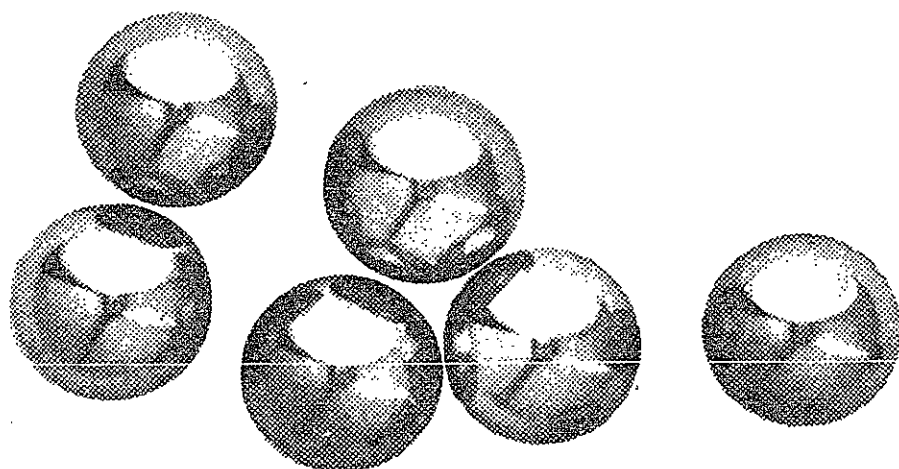
### Old theme

The theme is an old one, a favorite of Bernard Shaw's, more recently shown in "The Conjugal Bed." But a new twist is added. The modern world of the affluent society has forgotten the pessimism of Schopenhauer's day, and the girl who is actually perfectly fitted for life is so misled by the trappings of the Playboy world that she almost never realizes how comfortable a niche she has waiting for her.

'Georgy Girl' is symptomatic of the tendency of the cinema today to mix comedy with philosophy. A comedy, by definition, has a happy ending. Here this is true only from Georgy's viewpoint. The movement of the plot toward what many a viewer must consider a rather unpleasant idea, causes the laughter (which is abundant, by the way) to be a little bit uneasy.

The acting is good enough to create a near-perfect illusion of reality, and the photography, though often creative, rarely intrudes. You may enjoy 'Georgy Girl,' but even if you don't it will occupy your thoughts for some time.

## We set out to ruin some ball bearings and failed successfully



The Bell System has many small, automatic telephone offices around the country. The equipment in them could operate unattended for ten years or so, but for a problem.

The many electric motors in those offices needed lubrication at least once a year. Heat from the motors dried up the bearing oils, thus entailing costly annual maintenance.

To stamp out this problem, many tests were conducted at Bell Telephone Laboratories. Lubricant engineer George H. Kitchen decided to do a basic experiment that would provide a motor with the worst possible conditions. He deliberately set

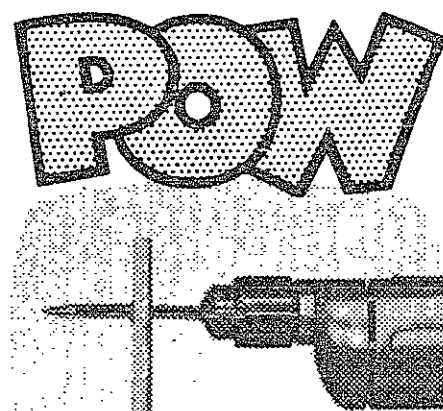
out to ruin some ball bearings by smearing them with an icky guck called molybdenum disulfide ( $\text{MoS}_2$ ).

**Swock!** This solid lubricant, used a certain way, actually increased the life expectancy of the ball bearings by a factor of ten! Now the motors can run for at least a decade without lubrication.

We've learned from our "failures." Our aim: investigate everything.

The only experiment that can really be said to "fail" is the one that is never tried.

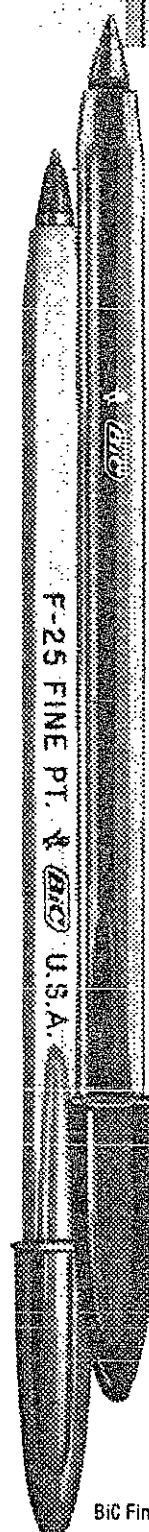
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# G&S Society's 'Gondoliers' opens this week in Kresge

'The Gondoliers,' a comic opera by Gilbert and Sullivan, contains all the plot complexity that has made their shows so famous. Marco and Guiseppe Palmieri, gondoliers in Venice, have been married to Tessa and Gianetta for only five minutes when the Grand Inquisitor, Don Alhambra Del Bolero, enters to announce that "one of the two, it is not quite clear" is actually the King of Barataria and not the son of old Palmieri. The King was abducted when a baby and only recently had been traced to Venice. What he does not tell them is that whichever one it is was married in babyhood to Casilda, the daughter of the pompous (and poor) Duke of Plaza-Toro. To add to the complexity, Casilda is in love with Luiz, an unimportant drummer in her father's retinue. Don Alhambra promises to look for the nursemaid who will be able to

straighten everything out but says that meanwhile Marco and Guiseppe should leave for Barataria (without their wives) and learn how to rule.

Act II begins at the court of Barataria where not only do the gondoliers miss their wives, but they are being starved, for the courtiers have provided food for only one King. Tessa and Gianetta suddenly appear, having become impatient and making the trip in spite of Don Alhambra's injunction. Happiness fades when Don Alhambra tells the girls that neither one of them is going to be Queen but that instead one of them must give up her husband to Casilda.

Luckily the nursemaid arrives soon and everyone lives happily ever after in accordance with a typical Gilbert and Sullivan ending.

'The Gondoliers' will be presented Thursday, Friday, and Saturday, November 17, 18, and 19, in Kresge Auditorium. Curtain time is 8:30 pm. Tickets are available in the lobby of Building 10; reservations may be made by phone at the Kresge Auditorium Box Office, x2910. All seats are reserved and are priced at \$1.75.

Last year the MIT Gilbert and Sullivan Society put on 'Yeoman of the Guard' and 'Pirates of Penzance,' and earlier this fall they presented 'Trial by Jury.'

## music . . .

# Bartok quartets performed in Kresge

By John Montanus

Sunday's concert of Bartok string quartets, played by the Hungarian Quartet, was a rare delight. The performance amply demonstrated both the originality and variety of Bartok's style and the fine expressive ability of the musicians.

The concert was the second in a series held in Kresge and sponsored by the MIT Department of Humanities. The first featured modern quartets; the current offering, centering as it did on one composer, helped round out the picture of the twentieth-century string quartet while presenting an interesting study in the progress of an individual mind.

The Quartet No. 1 (1908) already shows the distinctive Hungarian flavor that marks Bartok's work. At the same time it shows early originality of form; its two movements are both long and rather free in overall construction. The final allegro in-



The Hungarian Quartet—Zoltan Szekely and Michael Kuttner, violins, Denes Koromzay, viola, and Gabriel Magyar, cello—performing their all-Bartok program in the Department of Humanities' second Series concert.

cludes an impetuous fugue in its rondo-like progress.

The Quartet No. 6, written 31 years later, shows the influence of the neo-classical school in its suite form. Four slow (Mesto) sections alternate with three faster ones: a graceful vivace, an impassioned dotted-rhythm march, and a witty burlesco, a sort of drunken scherzo in duple time. The musicians outdid themselves in the interpretation of the changing moods of this piece.

The Quartet No. 4 of 1928 is the type of piece which, at the hands of sensitive interpreters, almost demands a program. There is frantic despair in the first Allegro—a rejected gypsy lover? The following prestissimo, played with mutes throughout, evokes a graveyard in autumn, with the leaves whistling over the tombs. In the lento movement the dead

lover, in the voice of the cello, makes his lament. This sentiment is dispelled by the fiery pizzicato dance, in which the instruments assume a guitar-like quality. The final wild dance is interrupted by a serenade and, at the very end, by a final plaint from the now-forgotten lover.

This sort of interpretation is, of course, invalid; but it is a tribute to the rich and vibrant playing of Messrs. Szekely, Kuttner, Koromzay, and Magyar, deep feeling for their native composer raised the music far beyond a mere succession of notes.

## SDS to present seminar on Vietnam from WW II 'til Geneva Conference

Students for a Democratic Society will hold a seminar on Vietnam tomorrow night at 8 pm in the Student Center. This week's topic is 'Events from the end of the second world war until the end of the Geneva Conference (1945-1954).' Specific questions to be discussed include that of American aid to Vietnam against Japan and what went on in the Geneva Conference.

All those attending are urged to read Dennis Warner's 'The Last Confucian' and 'The Gentleman's Outline of Vietnam by Documents.'

## Africa Program needs applicants

Applications for this summer's Operation Crossroads Africa Program are due Thursday in Dean Holden's office 5-104. According to the Operation Crossroads Africa office in New York, more applicants for the program are urgently needed. For further information, contact Chris Scott x2785 or Yves Kraus x3204.

## Composers chosen For Tech Show '67

By Ronald Bohm

The blossoming team of Munson and Grossman was recently chosen to compose 1967's Tech Show, 'Lucky William.' The composers have been called upon to produce a modern score with a slightly experimental flavor, no avant-garde but a bit more sophisticated than the usual musical comedy.

Dick Munson, a course XVIII junior, spent his high school spare time composing chamber music. He has been orchestra manager for Tech Show for the past two years, as well as a member of the Harvard-Radcliffe Orchestra.

Bill Grossman, a course I sophomore, is actively participating in the Gilbert and Sullivan Orchestra, Concert Band, MIT Orchestra and Tech Show as a pianist.

Dick and Bill first worked together this summer at the Berkeley School of Music. When asked what motivates their work, they explained "We heard little voices calling."

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# 'Hawaii' suffers in film adaptation

By Ric Klass

'Hawaii' is the story of an end to a paradise and the beginning of white man's civilization in our youngest state. In 'Hawaii,' Max Von Sydow plays a young New England minister who is sent to Hawaii with others to spread the faith among the native heathens. Before the journey, our young minister, Abner Hale, marries Jerusha Bromley, played by Julie Andrews. In fine Hollywood form, Jerusha marries home'y Abner in a mail-order bride fashion after knowing our hero for some five screen minutes.

## Contrasting characters

On the voyage to Hawaii the audience finds out what it expected perhaps even before the film started; Julie Andrews is a kind, considerate wife, and Von Sydow is a fire and brimstone preacher, staunch in his morals and his belief of the Gospel.

One of the rare, exciting moments of the film occurs on the voyage when the ship travels around the treacherous Cape Horn and nearly crashes on the barbed rocks. A good part of the film deals with the young couple ingratiating themselves with the Hawaiians in order to gain a foothold and eventually some land

## Sandor performs today for noon concert series

John Sandor, a graduate student in metallurgy, will present the first in a series of student concerts today at 12:05 in the Sa'a de Puerto Rico. Mr. Sandor's solo piano program will include works by Beethoven, Chopin, and Debussy.

The Student Center Committee is currently trying to establish a series of performances by exceptionally talented students or groups of students. Anyone interested in performing on a Tuesday during the noon hour should contact Dave Peterson at x3915.

Pianists who give concerts will be permitted to practice on the Steinway grand used in the concerts.

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a distinguished program of  
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from the is'landers. Those historically-minded will be pleased to find that the great epidemic is included in the picture. The movie also does not fail to mention the obvious statements of white men ruining the one-time Eden.

## Large budget

Millions of dollars were spent in producing 'Hawaii.' Purchasing the movie rights to James Michener's fine history of our newest state alone cost \$600,000. To insure a high degree of realism, two windjammers were purchased and remodeled to fit every historic specification.

Just to make sure nothing could go awry, the Mirisch Corporation, producer of 'Hawaii,' acquired the talents of two recent stars. Max Von Sydow, Ingmar Bergman's prodigy, is one of the two saving qualities of the film. In spite of having gone Hollywood, Von Sydow has managed to overcome the otherwise poor direction of the film and give a fine and convincing performance. Not surprisingly, Julie Andrews is the other saving quality. Her always-present sensitivity to her part gives the film what credibility it has.

## Generally dull

The most obvious weakness in this new spectacular is that the movie is generally dull. The absence of any appreciable amount of action, combined with lazy wandering in and out of the plot, gives the film little continuity and more than its share of boredom.

For some reason, the full possible visual scope of the camera is never brought out. Confining shots of colorful scenery and pageantry make the viewer aware that the action is taking place on a movie set. The underlying theme of contrasting the before and after affect of white man's coming is undercut by the fact that one never really sees the huts and the living conditions of the natives. The total result is a more concentrated look at the lives of the stars than is called for in Michener's novel, and thus a less interesting film.

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**The MIT Gilbert & Sullivan Society**  
presents  
**THE GONDOLIERS**  
**In Kresge Auditorium**  
**NOVEMBER 17, 18, 19**  
Tickets are available at:  
**Lobby, Building 10 or by phone, x2910**  
**ALL SEATS RESERVED, \$1.75**

## Making the Scene

S	M	T	W	T	F	S
		15	16	17	18	19
20	21	22	23	24	25	26
27	28					

## THIS WEEK

**MUSIC**  
New England Conservatory—Miklos Schwalb, Ail-Chopin Piano Recital, 'The Barcarolle, op. 60,' 'Sonata in B Minor, op. 58,' and 'Four Ballades,' Nov. 16, 8:30, Jordan Hall, free.  
New England Conservatory — program of piano music, Schoenberg 'Klavierstuck, op. 11, no. 2,' Chopin 'Berceuse,' Liszt 'Sonata in B Minor,' and works by Bach and Beethoven, Nov. 21, 8:30, Jordan Hall, free.  
Cambridge Society for Early Music — Soloists-Chorus-Chamber Ensemble, Iva de Hiatt, conductor, scenes from 'L'Ampiparnasso' by Vecchi, 'Lagrime d'Amante al Sepolcro dell'Amata,' Monteverdi, music of 14th Century Italy, 'Jonas,' by Carissimi, Nov. 16, 8:30, Sanders Theatre.  
Chorus Pro Musica—perform Bach's 'Magnificat,' Brahms 'Requiem,' Nov. 20, 8:00, Symphony Hall, \$2, \$3, \$4, \$5, and \$6.

## THEATRE

Harvard — Sartre's 'The Victors' opens Nov. 17, 8:30, Loeb Drama Center.  
Radcliffe — Grant-In-Aid, Society opens annual musical, 'A Funny Thing Happened on the Way to the Forum,' Nov. 17-20, Agassiz Theatre.

Emmanuel College—'A Murder Has Been Arranged,' Nov. 20, 2:30, 8:15, \$1.

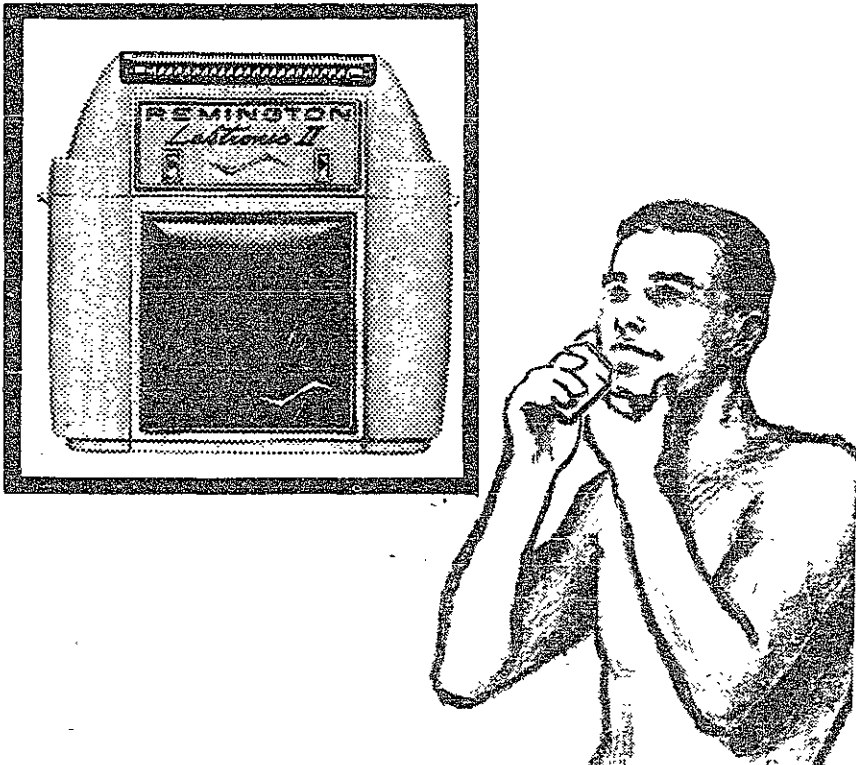
## MISCELLANEOUS

MIT—Dr. David Rutstein lectures on 'The Tangled Web of Medical Care,' Nov. 15, 4:30, 10-250.  
MIT—Dr. David Rutstein lecture on 'The Impact of Contemporary Technology and Automation,' Nov. 17, 4:30, 10-250.  
MIT—clipper ship painting exhibit, Nov. 14-Dec. 2, Hayden Library.  
Ford Hall Forum — Sen. Wayne Morse discusses the question 'Does the U.S. have a foreign policy,' Nov. 20, 7:45, Jordan Hall.  
Brandeis—Mulford Q. Sibley speaks on 'A Pacifist View of the Clash of Color,' Nov. 15, 8:15, Shapiro Forum.

## NEXT WEEK

**MUSIC**  
Boston Symphony Orchestra—Erich Leinsdorf conducts Sydemann's 'In Memoriam John F. Kennedy,' with E. G. Marshall as narrator, Nov. 22, 8:30, Symphony Hall.  
New England Conservatory—a program of Spanish music, Nov. 23, 8:30, Jordan Hall, free.  
**MISCELLANEOUS**  
MIT—Dr. David Rutstein lectures on 'A Plan for the Future,' Nov. 22, 4:30, 10-250.  
Ford Hall Forum—Rabbi Eugene Borowitz and Prof. Harvey G. Cox discuss the question 'Is God Dead,' Nov. 27, 7:45, Jordan Hall.  
Brandeis — Edwin O. Reischauer speaks on 'The Sensitive Western Role in Asian Development,' Nov. 22, 8:15, Shapiro Forum, \$1.50.

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music . . .

## '68 presents the inimitable James Brown

By Jack Donohue

The James Brown Show is an experience which cannot be described in precise terms. An attempt to pigeonhole the James Brown scene into a class of rhythm and blues, soul-sound, jazz, or the like, must prove a futile and academic venture. Even those hippest to these scenes must concede that the James Brown bag is truly unique.

### Brown makes new fans

The James Brown Show, performed Saturday as part of Junior Prom, strengthened the devotion of former fans and made many new devotees. The essence of James Brown is in live performance—this is where the inimitable artistry of the man and his group is really displayed. To those who had never seen a performance, the experience was totally new and amazing. For the James Brown Show is an emotion-packed experience, and the effect he produces on an audience is little short of startling.

James Brown began with his latest hit, 'Don't be a Dropout,' which seemed a little incongruous considering the audience, but by the end of the show, the audience had lost its identity of the MIT community and had been transformed into "soul brothers" of "Mr. Dynamite." The rest of the first half was confined to performances of the James Brown Orchestra, with the man himself on the organ for a while. A to-



Photo by Art Kalotkin

The James Brown Show, presented by the Class of '68 Saturday afternoon of Junior Prom. Held in the Armory for a packed audience, it featured the James Brown Orchestra and the Famous Flames, his back-up group.

tally fine performance was delivered, especially their rendition of 'Wade in the Water.' This was interspersed with performances by the rest of his entourage—the Fabulous Jewels, male and female vocalists, and comedians.

### Medley of hits

The second half was what the fans were waiting for. Backed up by the Famous Flames, as the shadows of the dancers caused the red light to coruscate on the

ceiling of the armory, James Brown launched a fervid medley of his greatest hits, with an up-tempo version of 'Papa's Got a Brand New Bag.' One after another, in a frenzy of excitement, "Mr. Dynamite" belted out the songs which made him famous. Swept by emotion, the audience gave resounding applause as James Brown wailed 'It's a Man's Man's World' with tears in his eyes (sure there were a few snickers from the cynics—but very few). The finale saw the entire audience clapping their hands in time with the irresistible rhythm of the truly unparalleled performer, James Brown.

## Junior Year Abroad program to hold discussion this afternoon

By Sue Downs

The Foreign Opportunities Committee will hold a meeting for all students interested in spending their year abroad today in room 467 of the Student Center at 4 pm.

Professor John T. Norton, MIT foreign studies advisor, will discuss the program available under which students may study abroad. Also on hand will be several students who have spent academic year overseas.

At present eleven MIT students are studying under such programs. Because of the relatively

rigid requirements of the engineering courses, these participants come almost exclusively from course XIV, XV, XVIII, VIII, and XXI.

Since MIT does not operate its own program, the difficulty of arranging an academically profitable year for each individual is not inconsiderable. For those who feel that the cultural and educational benefits of a year at a foreign university are worth a bit of trouble, a viable program can generally be arranged.

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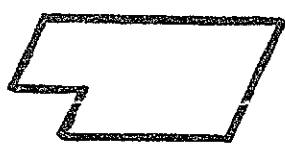
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## Hayden Gallery clipper ship exhibit features oil paintings, model ships

Thirty-two oil paintings of famous American clipper ships will be exhibited in the Hayden Gallery through December 2. They have been gathered for this showing from nautical museums, historical societies and private collections, and include some being shown publicly for the very first time.

Most of the paintings were done for a highly critical audience—the men who commanded or owned the vessels. Painted from life, they generally depict the ships from a broadside to show them at their best.

The exhibit will include lines and sail plans of several clipper ships from a broadside to show and a model of the famed Flying Cloud, which, in 1851 and again in 1854, made the 15,000-mile passage from New York around Cape Horn to San Francisco in a record 89 days. The average passage for a clipper was 130 days.

## MIT STUDENTS·FACULTY·STAFF

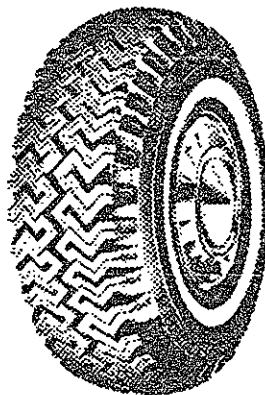
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## Canal prospects aided by 10 cm.

(Continued from Page 3)

from the Mediterranean has become more and more obvious in recent years, especially since oil tankers, the main travelers through the Suez, are reaching the 200,000 ton range—far too large for any present canal.

The major point in favor of a canal through Israel has been unearthed by studies at MIT, where it was determined that the Red Sea is 10 centimeters lower than the Mediterranean. This allows for the elimination of locks under the Batz scheme, but does not solve the problem of a tunnel.

## Evans spearheads radium research

(Continued from Page 1)

For his application of radioactive isotopes to wartime problems, he received this country's second highest civilian award, the Presidential Certificate of Merit.

Society president  
Considering the extent of his

research, it is not surprising that in February, 1966, Dr. Evans was elected president of the Radiation Research Society, an international, interdisciplinary, scientific society established in 1952 to promote teaching and original research in radiation. Nor is it difficult to understand why Dr. Evans is currently director of the Radioactivity Center at MIT.

A great deal of Dr. Evans' research has been government sponsored. Having served as a consultant to the Office of Scientific Research and Development, the Army, the Air Force, the Navy, the US Public Health Service, the Department of State, the Surgeon General, the Secretary of Defense, the National Military Establishment, the Federal Radiation Council, the Federal Aviation Administration, and the Atomic Energy Commission, Dr. Evans has concluded that government sponsored research has "worked beautifully in our case." In particular, properly administered government sources, such as the AEC, are, in his opinion, indispensable in providing for extremely expensive research.

Yet a description of his research alone does not suffice to reflect the multi-faceted nature

of Professor Evans. Many of the country's leading nuclear physicists are included in the 1200 graduate students who have studied under him. For example, Dr. Evans tells of touring a large national laboratory and discovering that his former students headed every division at the laboratory except one. In that one, a former student was assistant head of the division.

Also indicative of his teaching proficiency is his booklet 'You and Your Students,' which is given to all new members of the MIT teaching staff. It has been translated into several languages and well over 100,000 copies have been distributed to teaching institutions all over the world.

In evaluating the state of teaching at MIT, Professor Evans contends that here, as opposed to many other schools, there is a "much higher proportion of superb, dedicated teachers." Nonetheless, there is a certain "constraint imposed by numbers," and a "certain inevitable mass production." In any case, though, Professor Evans believes that a teacher should prepare extensively, intensively, and invariably for four times as much material as he expects to cover.

In short, Professor Evans regards education as a process of learning how to find out what you don't know and learning how to get along with people, and believes that MIT has developed a fairly effective method for imparting such knowledge.

## IFC blood drive opens tomorrow, aids hemophiliacs

"About 325 pints of blood should be donated to the New England Hemophilia Association this year by the IFC," stated Steve Swibel '68, Chairman of the annual IFC Blood Drive. The drive will be held Wednesday and Thursday in the Sala de Puerto Rico in the Student Center from 9:45 to 3:45.

### Should be most successful

"This year's drive promises to be the most successful in the IFC's history, and it should better last year's high of 294 pints with ease," commented Steve.

He continued, "The success of this drive now lies in the hands of those students who have agreed to donate. Everyone must keep his appointment. If the student's parents have returned permission cards his IFC representative should have notified him of appointment time by now. Students whose reply cards arrive between now and the drive will be notified."

Steve further explained, "The drive will produce a needed supply of blood for hemophilia patients in New England, and, at the same time, be a valuable service to the community by the IFC."

### Aid hemophiliacs

The hemophiliac's blood lacks a vital clotting factor which abnormally delays clotting, and uncontrollable external or internal bleeding may be incurred by the smallest incident. External bleeding can often be stopped by chemicals and surgical dressings.

However, the hemophiliac's primary problem is the crippling cause by internal bleeding into joints, which can be arrested only after many transfusions of fresh blood and plasma. Donors give up about one hour of their time to supply one pint of whole blood.

This blood can be used directly for up to three weeks if it is properly refrigerated. After this time, plasma is extracted from the blood. In this manner, the collected blood will never go to waste.

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- (1) a six-month sea assignment;
- (2) a six-month tour of duty and study at a shipyard;
- (3) assignment to the Washington Office of Ship Construction or Research and Development for on-the-job training in Naval Architecture, Marine or Electrical Engineering;
- (4) nine to 12 months advanced study in one of these or related disciplines at a university acceptable to MARAD—study which nor-

mally completes the requirements for a master's degree.

You may earn promotions twice during the work-study program, from GS-7 to GS-9 after a year's service, then to GS-11 upon award of a master's degree or its equivalent. And throughout the program, in addition to full salary and Federal Civil Service career benefits, you will be reimbursed 100% for all educational, transportation and associated expenses.

Starting salaries for Engineers in each grade: GS-7, \$7,729; GS-9, \$8,479; GS-11, \$9,536. Subsequent promotions are earned in keeping with the employee's demonstrated fitness to take greater responsibilities.

### Management Trainee Program

Business, Accounting, Economics and Political Science graduates are urged to investigate MARAD's Management Trainee Program. Participants undertake 12 months of concentrated training in one of these major program areas: Budget and Management, Comptroller, Contract and Procurement, Government Aid, Personnel Management, Program Planning, Public Information, Ship Operations, ADP, and Maritime Promotion.

Trainees work on actual projects under guidance and supervision of qualified management personnel, attending staff conferences and meetings to learn about management considerations governing the day-to-day operation of the Maritime Administration. Beginning as GS-7 or GS-9 (depending on educational level and experience), the Trainee is promoted to GS-9 or GS-11 and assigned to a regular position at successful conclusion of the program.

Starting salaries for Management Trainees in each grade: GS-7, \$6,451; GS-9, \$7,696; GS-11, \$9,221. Subsequent promotions are earned in keeping with the employee's demonstrated fitness to take greater responsibilities.

### CAMPUS INTERVIEWS

November 19

Visit your placement office as soon as possible to arrange a campus interview with MARAD representatives. You may write for further information.



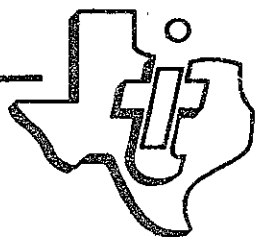
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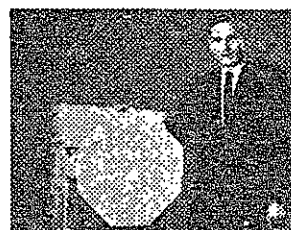
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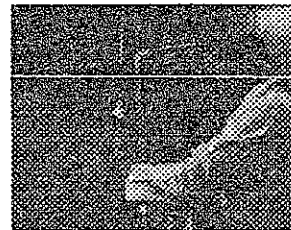
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**SIGNAL PROCESSING**—TI, the world's largest digital processor of seismic information, developed advanced signal processing systems used in detection of nuclear explosions and earthquakes, as well as in the search for oil. Today, TI operates several major processing centers in the US, Canada, England and the Middle East.

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## Halfman on leave in India to aid technical institute

Professor Robert L. Halfman of the department of Aeronautics and Astronautics is now on a two-year leave from MIT to lead a team of 25 US educators who are helping to develop the Indian Institute of Technology at Kanpur into an outstanding center of technological education and research. The US team represents a consortium of nine universities and technological institution, working under contract with the Agency for International Development to help build the Kanpur IIT into one of the best institutes of its kind in South Asia. In addition to teaching, Dr. Halfman arrived in India

Halfman is actively engaged in the development of curricula, modern teaching methods, new research programs, and the planning and procurement of equipment and books not available in India to begin this, his second assignment with the Kanpur IIT. His first was from 1962 to 1964, when he served as a visiting professor in astronautics engineering. Dr. Halfman has long been associated with MIT. After receiving his Bachelor of Science and M S degrees here, he joined the faculty in 1947 and was appointed Professor of Aeronautics and Astronautics in 1964.

## Discuss new developments

# Professors hold Vietnam seminar

By John Foran

Four MIT professors discussed 'What's New in Vietnam' Monday afternoon, November 7, in the Student Center Mezzanine Lounge. After a short film, the four men presented their views on the US policy of controlled escalation.

The participants were: Salvador Luria, Sedgwick Professor of Biology; William Schriber, Professor of Electrical Engineering; Cyrus Levinthal, Professor of Biology; and Philip Morrison, Professor of Physics. The four men have long been actively concerned with the morality of the war in Vietnam.

### Luria starts discussion

Professor Luria led the discussion by introducing the film. He said, "The war must be discussed in many ways: American policy in Vietnam—where it is going, its stated and unstated purposes—and the effects on both the U.S. and the UN."

### 'Time of the Locust'

The film, 'Time of the Locust,' was compiled from North Vietnamese, Japanese, and US sources, assembled in Europe, and distributed in the United States by the American Society of Friends. It dramatized the horrors of the war on individuals, rather than the

problems of complex strategies. After the film, the professors expounded their viewpoints and answered questions from the audience. Professor Morrison reviewed the facts of the US bombings on North Vietnam. After receiving aid from the Soviet Union, he said, North Vietnam now has a good deal of well distributed power, most of which is used for anti-aircraft installations. In its 800 overflights a day, the US is really not getting the effect it desires. In addition, floating bridges and a system of ground shelters get supplies through.

### Bombing 'unjustified'

"There is behind this," Morrison noted, "one grave question mark. There is a third motive which has its place—that 300 miles across the seventeenth parallel is China." The US, he said, is by its present policy appeasing the military interests by preparing for a future air war with Red China. Our bombing is now, however, "without immediate military value" and thus "is unjustified." The US is practicing a "policy of escalation," while China practices a "policy of containment."

One important question involved "what we can do." The questioner said he was "tired of picketing,"

and wanted a more effective means of reaching the general public with his viewpoint.

### Actions of democracy

Luria commented that in a democracy "we must operate through the machinery of government." By putting pressure where pressure is needed, he noted, a result can be achieved; many in the Senate who are of the sentiment that the US must stop its policy of escalation or who want to withdraw US troops from Vietnam are not actively supported by those members of the public who agree.

Morrison added that there is a need for ingenuity in solving "the problem of contact to the rest of the student body who in a large case do not agree about (the situation of) the war." Shriver noted that opinions can change.

## Lectures on medicine presented by Rutstein

Four lectures by Dr. David D. Rutstein, Head of the Preventive Medicine Department at Harvard Medical School, are being sponsored by MIT during the month of November. Each of the lectures, the first of which has already passed, are held in Room 10-250 at 4:30 p.m. The topic of last Tuesday's lecture was 'The Paradox of Modern Medicine.' At that time, Dr. Rutstein reviewed the evolution of medical education and modern society's failure to attain the best possible level of health.

### Speaks today

'The Tangled Web of Medical Care' is the title of the second lecture, to be held this afternoon. Here, the topic will be the unfortunate disparities between various segments of medical research and industry.

Thursday will mark the third lecture, at which Dr. Rutstein will discuss 'The Impact of Contemporary Technology and automation.' He will then present examples of what has been done in bio-medical engineering through the use of computers and other modern technological devices.

Finally, Dr. Rutstein will look at 'A Plan for the Future,' Tuesday, November 22, and will project probable advances in medical care with increased use of technological equipment.

Through this lecture series, Dr. Rutstein hopes to provoke increased interaction among various modern professional skills in medicine, engineering, science, and administration.

### Noted contributions

Dr. Rutstein is a recognized leader in the fields of medical education, public health and preventive medicine. During his career, he has made major contributions in the study of arterial and coronary disease, and has served several years as a top public health official in New York City. Along with Professor Duncan E. Reid, also of Harvard, Rutstein is responsible for the recently passed legislation which permits dissemination of birth control legislation in Massachusetts.

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Interested? We'll send you a bibliography and abstracts of recent research papers published by staff members to assist you in your evaluation. Write to Mr. Louis Rudzinsky, Avco Everett Research Laboratory, 2385 Revere Beach Parkway, Everett, Mass. 02149.

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## Trend was predicted

# Future seen for electric car

By Leland Shaeffer

During January, 1945, Dr. George R. Harrison, Dean of Science at MIT, made a prediction. Twenty-one years later, the Ford Motor Company is working to make this prediction come true.

In a lecture given in 1945 to a business group, Dr. Harrison, dean from 1942 to 1964, said that the electric car should some day replace the gasoline-powered model, as soon as certain technological difficulties are overcome.

### Stuffed wagon

He remarked at that time that the conventional car is a "comfortably stuffed wagon loaded down with gadgets designed to make other parts satisfactorily fulfill their function of correcting inadequacies of still more fundamental gadgets." For example, a gasoline engine will not start itself; an electric starter is provided for the purpose. A battery must then be supplied to power starter. The battery must be recharged so a generator is added. Since the generator sometimes provides too much current, a cut-out is needed. And so on. . . .

### Chassis and wheels

"How much simpler it would be to run the whole car with electric power — then we could throw

away — almost everything except the chassis and the wheels.

"Then we need only mount a small motor on each wheel and operate these from a central storage battery. (It) would have the additional advantage that — when running down hill — we could store energy in the battery for future climbs. What present day motor car pumps gasoline back into its fuel tank while coasting?"

### Weight problem

Dr. Harrison explained the reason electric cars are impractical is that one pound of gasoline can deliver over twenty times as much energy than that produced by one pound of storage battery. However, Harrison believes (as did Thomas Edison) that the lead storage battery is not the lightest storage battery that can be produced.

Dr. Harrison concluded, "Develop a storage battery which will drive a car 200 miles on one charge, yet weigh no more than an engine, plus 15 gallons of gas, and the job is done."

In other areas, development of stored electrical energy is proceeding well. Firms are now marketing a fuel cell similar to the ones used in Gemini crafts. These are to be used aboard

boats and on trailers. Ford is looking for a practical application of the storage cell which would fit Dr. Harrison's description of many years ago.

## Harvard Professor to speak today about 'Ionospheric Sporadic E'

Dr. Ernest K. Smith, Director of the Aeronomy Laboratory ES-SA, Boulder Colorado, and presently Visiting Professor at the Harvard University Observatory, Room 54-923, at the completion of his talk.

# George Bernard Shaw be darned!

## The Bulletin Board

Meetings and events may be included in this article and in the MIT Student Bulletin by filling out a form in the Incomm office or in Mr. Jim Murphy's office in the Student Center at least 12 days in advance of the week the event is to occur.

### Tuesday, November 15

12:00 pm—Piano Recital. Multi-Purpose Room, Student Center.  
4:00 pm — Foreign Opportunities Committee. Junior Year Abroad Program. Student Center, Rm. 461.  
4:30 pm—Lecture: The Tangled Web of Medical Care. Speaker: David D. Rutstein, M.D. Rm. 10-250.

### Wednesday, November 16

9:45 am—Blood Drive. Student Center.  
2:30 pm—Technology Matrons Meeting. Speaker: Mrs. Robert Wood. Student Center, Mezzanine Lounge.  
5:00 pm—Club Latino Meeting. Student Center, Rm. 467.  
7:00 pm—Debate Society Meeting. Student Center, Rm. 473.  
7:00 pm—Sports Car Club Meeting. Student Center, Rm. 467.  
7:15 pm—Eta Kappa Nu Honorary Meeting. Student Center, Rm. 407.  
7:30 pm—APO Meeting. Student Center, Room 491.  
7:30 pm—Logarithms. Student Center, East Lounge.

### Thursday, November 17

9:45 am—Blood Drive. Student Center.  
5:00 pm—Dance Class. Student Center, Rm. 407.  
7:00 pm—Ashdown Dance. Student Center, Rm. 407.  
7:00 pm—Choral Society Meeting. Student Center, Rm. 491.  
7:30 pm—MIT Orchestra Rehearsal. Student Center, Multi-Purpose Rm.  
8:00 pm—Baha Discussion Group. Student Center, Rm. 473.  
8:00 pm—Helikon Lecture, "Massachusetts State Politics." Student Center, Mezzanine Lounge.  
8:30 pm—Gilbert & Sullivan Society present "The Gondoliers." Admission \$1.75. Kresge Auditorium.

### Friday, November 18

7:00 pm—LSC Movie: King and Country. Admission: .50. Rm. 26-100.  
7:30 pm—Jewish Sabbath Services. MIT Chapel.  
8:30 pm—Hillel Lecture: "Conservative Judaism." Student Center, East Lounge.  
8:30 pm—Gilbert & Sullivan Society. "The Gondoliers." Admission: \$1.75. Kresge Auditorium.  
9:00 pm—LSC Movie.

### Saturday, November 19

9:00 am—Jewish Sabbath Services. MIT Chapel.  
12:00 pm—Bridge Club. Student Center, Rm. 497.  
1:00 pm—Chess Club. Student Center, Rm. 491.  
7:00 pm—LSC Movie. "The Chase." Admission: .50. Rm. 26-100.  
8:30 pm—Gilbert & Sullivan Society. "The Gondoliers." Admission: \$1.75. Kresge Auditorium.  
9:00 pm—LSC Movie.

### Sunday, November 20

9:15 am—Roman Catholic Mass. MIT Chapel.  
11:00 am—Protestant Service. MIT Chapel.  
12:15 pm—Roman Catholic Mass. MIT Chapel.  
1:00 pm—Chess Club. Student Center, South Lounge.  
4:45 pm—Roman Catholic Mass. MIT Chapel.  
4:30 pm—I.F.C. Dinner. Student Center, Mezzanine Game Room.  
7:00 pm—Lutheran Services. MIT Chapel.  
8:00 pm—LSC Movie. "Citizen Kane." Admission .50. Rm. 10-250.  
7:30 pm—MIT Hillel-Atid. Lecture: Dr. Morton Siegel. Student Center, Mezzanine Lounge.

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## 287 attend symposium

# Yacht research discussed

By Carson Agnew

A one-day symposium on sailing yacht research took place Wednesday in Kresge. Sponsored by the Department of Naval Architecture and Marine Engineering, the gathering attracted 287 people from as far away as England.

The meeting consisted of two sessions, one in the morning and one in the afternoon, a tour of the MIT yacht research facilities, and an informal evening of discussion following dinner at the MIT Faculty Club.

### Baker, Keil featured

The morning session, moderated by William A. Baker, Curator of the Hart Nautical Museum, dealt primarily with research and design in yacht hulls. Following an introduction by Dr. Alfred H. Keil, Head of the Department of Naval Architecture and Marine Engineering, a paper on 'Yacht Hull Research' was presented by Dr. Justin E. Kerwin, Associate Professor of Naval Architecture. He was followed by Peter DeSaix, Chief of the Ship and Yacht Division of the Davidson Laboratory, Stevens Institute of Technology.

After a brief coffee break, a

paper on 'Stability and Control in Quartering Seas' was given by Dr. J. Nicholas Newman of the Navy's David Taylor Model Basin. This test facility was the one used for the tests made on a full-sized yacht, Antiope, for the report which appeared in Scientific American.

### Research in England

The next paper, on 'Yacht Research in England' by Paul Spens, Fellow of the Department of Aeronautics and Astronautics at Southampton University, England, was presented by Peter W. Brown, Manager of the Marine Craft Development Group at the Davidson Laboratory at Stevens Institute of Technology. The meeting then broke up for lunch at the

## Varsity Club sets blast on Saturday

The Varsity Club will sponsor a dance Saturday for all lettermen, including those lettering in the fall season. It will be held at Delta Upsilon fraternity, 526 Beacon St., from 8 to 12 pm. Refreshments will be served, and The Insex will provide live entertainment.

Student Center, and resumed at about 1:45 that afternoon.

First speaker at the afternoon session was Halsey C. Herreshoff, Instructor in Naval Architecture at MIT and grandson of the famous yacht designer, Nathaniel Herreshoff. His paper, on 'Yacht Sail Research,' was accompanied by a film showing smoke tunnel studies of flow around a sloop's sails, and an interesting slide in which he showed a highly conjectural sloop design utilizing high-lift devices similar to those used on jet aircraft.

The last paper of the day was presented by Dr. Jerome Milgram Research Associate at MIT, on 'Yacht Sail Design.' Dr. Milgram showed how he had used a computer to design optimum sail shapes and then to give directions for cutting the sail to the sailmaker.

Following this paper was a period of questions and discussion, first of the afternoon's papers, then of the entire day's presentations. At 3:45 the tours, which included the Wright Brothers Wind Tunnel, the model towing tank, and the computing facilities, began.

## How They Did

**Cross Country**  
MIT (V)—13th in New England  
MIT (F)—6th in New England  
**Pistol**  
MIT (V) 1104, Melrose Gun Club  
1084  
MIT (V)—4th in Pentagonal  
**Sailing**  
MIT (V)—4th in Fowle Trophy  
**Rugby**  
MIT (A) 15, Fairfield 6  
MIT (B) 12, Fairfield 0

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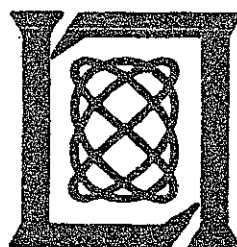
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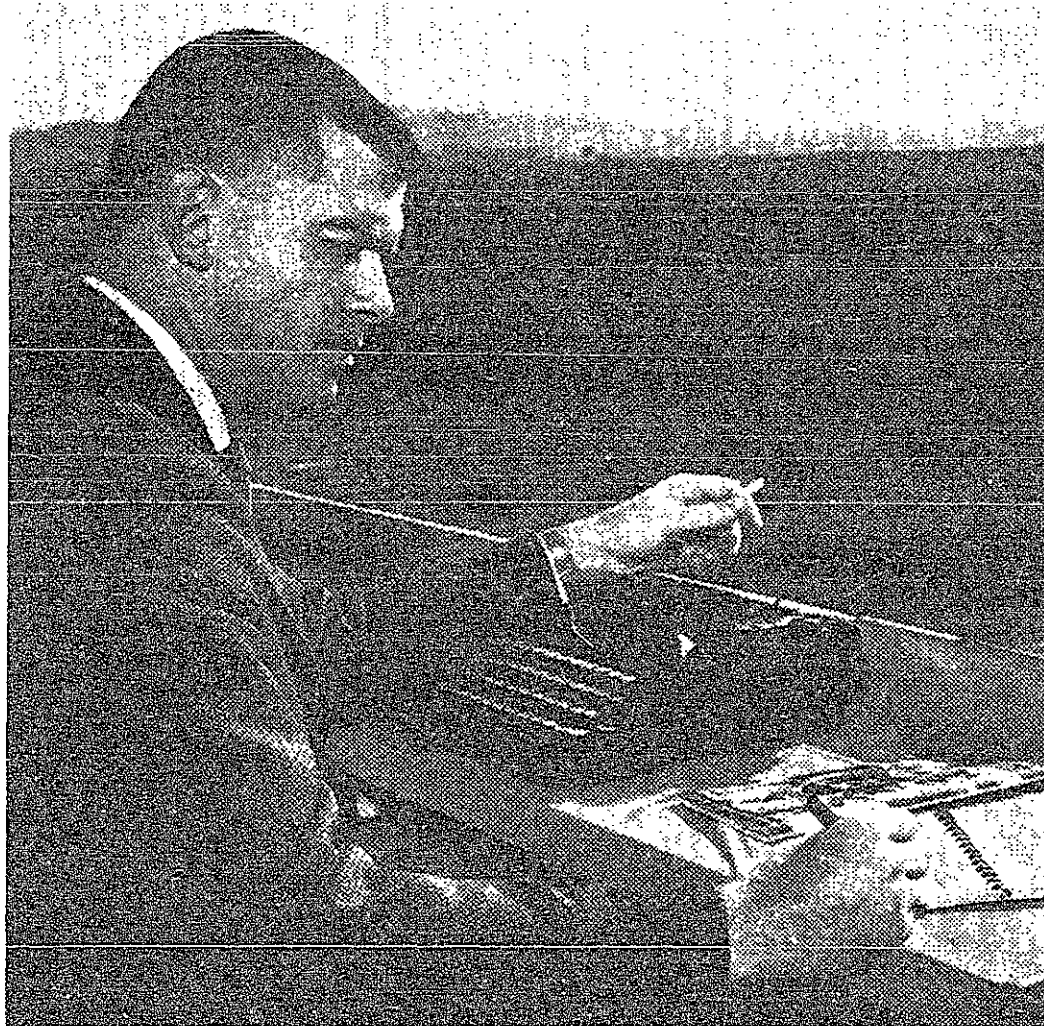
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## Frosh sports

## Wilson boosts harriers to sixth in New Englands

By Stan Kask

Tech's frosh cross-country team placed sixth in the New England Cross-Country Championship held November 7 at Franklin Park. The team championship was shared by Providence and Holy Cross.

### Ethiopian shatters record

Sebo Mamo, an Ethiopian exchange student from Colby College, won individual honors by shattering the course record set just the week before by Ben Wilson of MIT in the Greater Boston. Mamo covered the 3.1 mile course in 15 minutes flat, knocking thirty seconds off Wilson's recent record.

Ben ran a good race, but the fleet-footed Ethiopian was too much for him. Ben finished second in 15:20. The favorite in the race, Art DuLong of Holy Cross, finished third in 15:42.

The MIT freshmen who participated in the meet were John Owens, who placed thirtieth in 17:07; Larry Petro, who finished thirty-eighth in 17:17; Jim Leary, who was fifty-second in 17:31; Arthur LaDrew, who came in fifty-seventh in 17:35, and Eric Darling, who was sixty-second in 17:41.

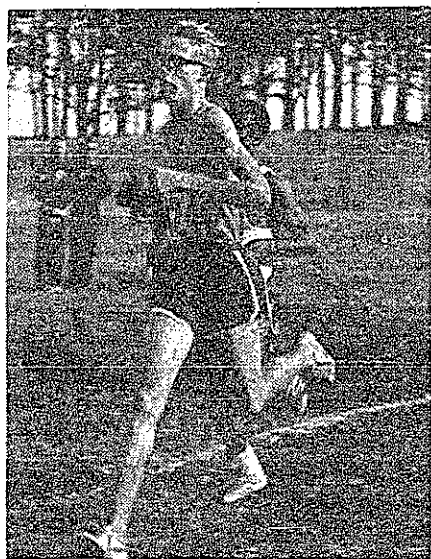


Photo by Jeff Reynolds  
Ben Wilson of MIT matches strides with Sebo Mamo of Colby in Monday's New Englands. Wilson finished 2nd, 20 seconds behind Mamo, in 15:20 over the 3.1 mile course.

### Final Team Standings

Providence	53
Holy Cross	53
Central Connecticut	149
Bates	163
UConn	166
MIT	179

The final meet for the freshmen is the IC4A championships, which were held yesterday afternoon. The team was disappointed with last week's showing, however, and are looking forward to an appropriate finish to their undefeated regular season.

## Coast Guard wins regatta with Tech sailors fourth

By Jeff Goodman

Tech's sailors finished fourth behind Coast Guard, Harvard, and URI in the Fowle Trophy Regatta Saturday and Sunday at the Coast Guard Academy in New London, Connecticut.

The four teams were split into two semi-final matches: Tech pitted against Coast Guard, Harvard against URI. The semi-finals were to consist of the best four out of seven races on Saturday with the finals taking the same format on Sunday. However, Saturday's conditions for sailing were far from optimum. The first race started in "zero winds" according to captain Chet Osborn '67. The fleet, consisting of four MIT boats and four Coast Guard boats, was swept behind the starting line by the currents. When the wind picked up, it was only behind the Coast Guard boats. Needless to say, MIT lost the race. The remaining races were cancelled.

On Sunday, there was not enough time to have the best four out of seven races for the semi-finals and for the finals. Consequently, the semi-finals were cut to the best three out of five races.

## All-Tech Swim trials scheduled for Friday

For those interested in swimming, the annual All-Tech Swim will be held Friday and Saturday. Competition will be by classes, as in the past. This year, the meet is being held over the same weekend as the class day crew races. It is hoped that this will heighten the sense of inter-class competition.

The trials will be held Friday, beginning at 3 pm, with finals beginning at 7:30 pm Saturday. The competition is open to any member of the MIT community. Those interested in competing should contact their respective class captains: Graduates, Dick St. Peters '65, 868-4492; seniors, Mike Crane '67, x3202; juniors, Larry Preston '68, x3265; sophomores, Luis Clare '69, x2843; and freshmen, coach Dave Michael; all others, Lee Dille '69, x3206.

MIT lost two more times to Coast Guard and did not qualify for the finals.

The regatta was set up on a team racing basis whereby the school with the highest boat point total for each race won that race. Four boats sailed for each school. For MIT Chet Osborn skippered and Jim Gallagher '69, who made his first appearance all season, crewed the first boat. Joe Ferreira '67 skippered and Jacques Nahmias '67, also a new face, crewed the second boat. Mike Bruce-Lockhart '69 and Mike Underhill '69 were skipper and crew for the third boat. Mike Zuteck '67 and Tom Maier '67 handled the last boat.

This was the last regatta of the season for the engineers.

## Intramural sports

## Basketball race looks tight

The IM basketball season opened last week with a full 33 game schedule. If the first week is any indication of what is in store for the rest of the season, it looks as if there will be a very tough fight for the IM championship. Three of the top four ranked teams picked up just where they left off last year.

Lambda Chi Alpha, last year's champion, left no question that they are out to hold on to the title. They did everything but freeze the ball as they romped over Senior House by a 69-20 score. The Lambda Chi's played just as they have in years past, with fast breaks, smart passes, and the easy two points. Bruce Twickler '68 again stole the show with his heads-up play. His ball hawking and precision shooting were all the spark that kept LXA going.

Alpha Epsilon Pi, number three last year, started the ball rolling with a 49-33 victory over Delta Upsilon Wednesday. The taller AEPIs took full control of both the offensive and defensive boards and, subsequently, control of the game. Sam Wilensky '69, Bob Akullian '69, and Herb Finger '68 hauled down everything put up. Top scorer Gerry Barner '68 kept AEPI ahead, putting in 12 points.

Phi Gamma Delta sweated a bit, but won out in the end, with a 44-34 defeat of Phi Delta Theta. With an 18-17 halftime score the Fijis pulled away. Walt Maling '69, Fiji backcourt ace, sparked the team with his jump shots from the top of the key.

# Rugbers run over Fairfield, 15-6

By Jim Nash-Webber

Playing in traditional rugby weather—rain on mud—the Tech rugbers held onto their winning streak Saturday. Taking advantage of their superior bloody-mindedness in the sticky conditions, the MIT first fifteen thrashed Fairfield U. 15-6 while the second fifteen won 12-0 over the Fairfield seconds—perhaps more by good luck than by good judgment.

The engineers' first fifteen dominated the first half, opening with a fine penalty goal, booted over by the indefatigable Jim Ashton, making a rare but welcome appearance at center three-quarter. Scrappy play by the Fairfield pack led to an unconverted score by Chuck Nelson. The half-time whistle found MIT ahead 9-0, following a classic try by the Tech backs in which fly-half Ted Kelly and Jim Ashton each drew two defensive players before passing to Bernard Fogarty, who made good use of the space opened up to crash over the line.

In the second half, poor conditioning obviously took its toll on

the Techmen. In a display of inept tackling, the Fairfield scrum-half was allowed to get away for a 50 yard solo blind-side run to score in the corner, and the pack also allowed a pushover try in the loose. MIT fortunes were soon redressed, however, when Ashton put over another short penalty, and a brilliant reversal of a blind-side forward rush over the enemy line sent Charlie Rook over, carrying half the defense with him.

### Seconds look good

For the first few minutes, the second fifteen game looked almost like good rugby, with Greg Wheeler '67 on the right wing going over and round behind the posts after a full three-quarter line movement. The game soon degenerated into a muddy forward scramble, however, in which Tech dominated only by virtue of superior meanness, as demonstrated by front row rugbers like Hildy Frost and Paul Fine. Scrum-half Leslie Boring had a fine game, though receiving inadequate protection from his for-

wards, and was eventually able to get Mark Markofsky over on the blind side before the half.

The fortunes of war allowed Dick Sidell to come into the Tech line to score in the corner after a 30 yard driving broken-field run from the loose, but conversion was impossible in the mud. The icing was put on the cake with yet another try by speedster wing Markofsky.

### Harvard on tap Sat.

Saturday's game against Harvard, in the midst of a mediocre season, will round out the fall slate. Since the fall is used primarily to set up integrated teams for the spring season, the rugbers' current performances augur well for next year. Both teams have stabilized and are beginning to play as teams at last.

The vital positions of scrum-half—roughly equivalent in importance to that of the quarterback in football—have been brilliantly filled by Pedro Taborga from the Argentine and Bud Boring from Texas. With their aid the forwards and the backs are now able to combine effectively, the ball seldom being allowed to die in the loose.

Hopefully, academic pressure and the skiing season will not decimate the squad before spring.

## Tech harriers 13th

## Providence wins New Englands

By Jim Yankaskas

Coach Art Farnham's harriers placed thirteenth in the New England Intercollegiate Cross-country Championships Monday, November 7. Twenty-five colleges and universities fielded teams for the race. Franklin Park, the site of Tech's home meets, was the location of the 4.7 mile race.

Providence College repeated their performance of last year, and won the meet with a very good score of 60. This was less than half the score of second-place Central Connecticut, whose total was 127. UMass and Brown tied for third with 144.

Stan Kozubek '69, the Engineers' leading runner finished a respectable ninth from a field of more than 150 runners. His time was 23:26. Pete Peckarsky '68 finished 29th. Pete has been improving greatly, and he followed Kozubek by 30 seconds. This is the closest anyone on the team has been to Stan this year.

Other scorers for the team were John Usher '69, Helge Bjaaland '67, and Geoff Hallock '69. They finished with times of 24:53, 25:35, and 25:48, respectfully.

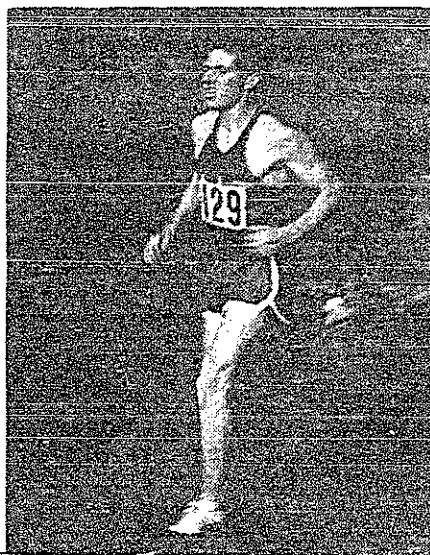


Photo by Jeff Reynolds  
Stan Kozubek '69 seems to be running well during the course of the New Englands Monday at Franklin Park. He finished ninth.

These times were the best of the season for the team, and they show excellent end-of-season improvement for some of the runners.

Yesterday marked the end of the season as the team competed in the IC4A Championship in New York.

## Pistol team wins, fires new record

MIT's pistol team won its second match of the year by defeating Melrose Rod and Gun Club in Greater Boston Pistol League competition. John Reykjian '67, captain, Dennis Swanson '68, Mike Demanche '68, and Patrick Haynes '68 comprised the team which fired an all-time record score of 1104 points against Melrose's 1034 for the win. Although the record was not fired in intercollegiate competition, Coach Thomas McLennan is confident that the record will fall as the season progresses.

The first home match of the season was fired Saturday as Tech hosted a pentagonal. The engineers took fourth in the match, finishing behind Navy (2270), Air Force (2172) and Villanova (2160). Reykjian fired his highest total in team competition, racking up a total of 560 points. Swanson shot 555, followed by Demanche with 543, and Adam Reed '67, with 500, to total 2158.

An assistant manager for the indoor track team is urgently needed. No previous experience is needed. Anyone interested in this position should call varsity manager Dan Nichols at Ext. 3617.

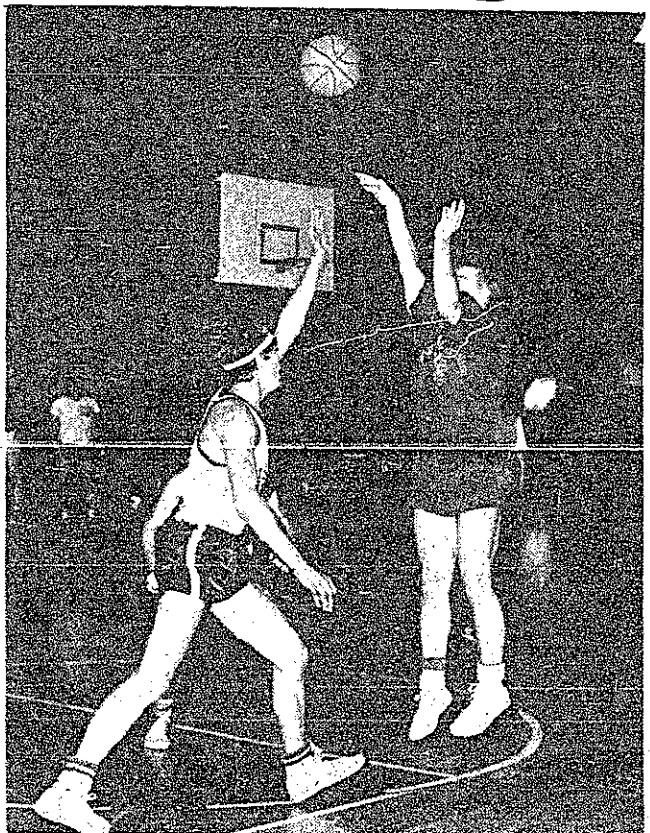


Photo by Jeff Reynolds  
Ted Nygreen '67 (SAE) takes a shot from the free-throw line over the outstretched arms of Burton defender Tom Scholz '69. The Saelor offense proved ineffective, however, as they dropped the decision to Burton House, 46-31.

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